Hangzhou HuaAn Biotechnology Co.,Ltd.
Orders: 0086-571-88062880
Support: 0086-571-89986345
Web:www.huabio.com

HADHSC

Cat#: M1409-2

Product Type: Mouse mAb **Isotype:** IgG1, κ chain **Clone ID:** D10-E7
Species reactivity: Human, mouse
Positive control: 293, human liver, mouse liver
Subcellular location: Mitochondrion matrix
Database links: SwissProt Q16836 (human)

Applications： WB, ICC
Lot#： See on the tube
Form： Liquid
Molecular Wt.： 34kDa

Description: Hydroxyacyl-Coenzyme A dehydrogenase also known as HADH is an enzyme which in humans is encoded by the *HADH* gene. This gene is a member of the 3-hydroxyacyl-CoA dehydrogenase gene family. The encoded protein functions in the mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. Its enzymatic activity is highest with medium-chain-length fatty acids. Mutations in this gene cause one form of familial hyperinsulinemic hypoglycemia. A deficiency is associated with 3-hydroxyacyl-coenzyme A dehydrogenase deficiency.

Immunogen: This antibody is produced by immunizing mice with a synthetic peptide corresponding to a region of HADHSC.

Recommended Dilutions:
WB: 1:1,000-1:2,000
ICC: 1:500

Buffer: 1*TBS (pH7.4), 0.5%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: ProA affinity purified.

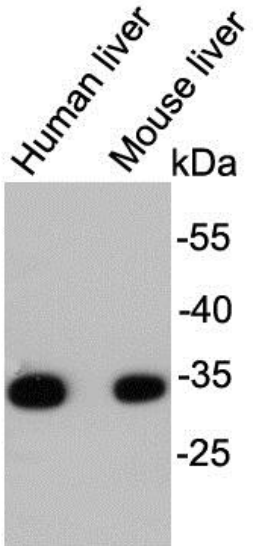

Fig1: Western blot analysis on tissue lysates using anti- HADHSC mouse mAb.

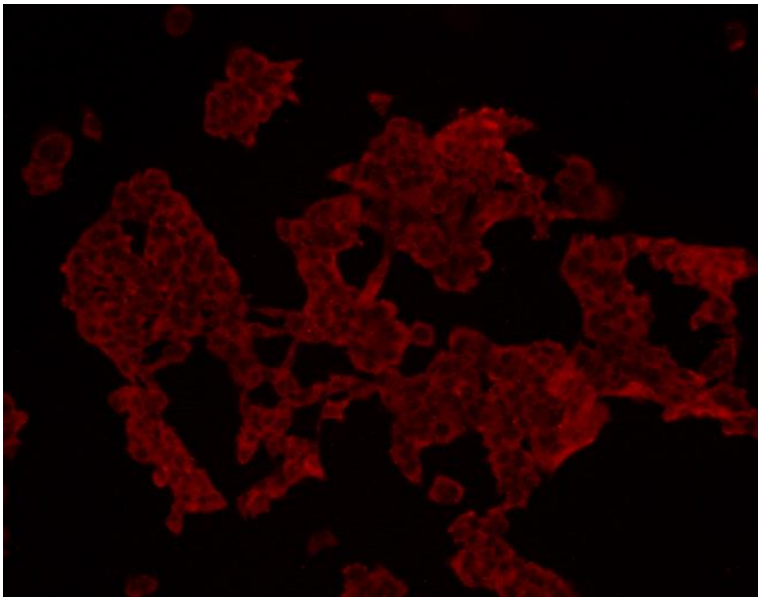

Fig2: ICC staining HADHSC in 293 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

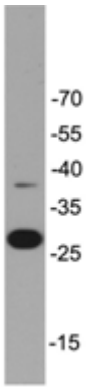

Fig3: Western blot analysis on zebra fish tissue lysates using anti- HADHSC mouse mAb.

Background References:

1. "Sequestration of the active site by interdomain shifting. Crystallographic and spectroscopic evidence for distinct conformations of L-3-hydroxyacyl-CoA dehydrogenase." Barycki J.J., O'Brien L.K., Strauss A.W., Banaszak L.J. J. Biol. Chem. 275:27186-27196(2000)
2. "Fulminant hepatic failure associated with mutations in the medium and short chain L-3-hydroxyacyl-CoA dehydrogenase gene." O'Brien L.K., Rinaldo P., Sims H.F., Alonso E.M., Charrow J., Jones P.M., Bennett M.J., Barycki J.J., Banaszak L.J., Strauss A.W. J. Inherit. Metab. Dis. 23 Suppl. 1:127-127(2000)
3. "3-hydroxyacyl-CoA dehydrogenase and short chain 3-hydroxyacyl-CoA dehydrogenase in human health and disease." Yang S.-Y., He X.-Y., Schulz H. FEBS J. 272:4874-4883(2005)